

Amendments to the Claims

Please make the following amendments to the Claims:

1. (Currently Amended) An apparatus for managing data in a grid computing environment, the apparatus comprising:
 - a computing node configured to execute a plurality of executable code modules, the executable code modules comprising:
 - a GUI generation module configured to generate graphical user interfaces;
 - a replication management module configured to conduct data replication operations including directory-based replication operations; ~~and~~
 - the replication management module further configured to invoke generation of at least one graphical user interface, the at least one graphical user interface configured to facilitate invocation of the data replication operations by a user; and
 - the replication management module further configured to invoke a replica location service associated with the grid, the replica location service configured to access at least one replica location index and at least one local replica catalog remote to the replication management module.
2. (Cancelled)

3. (Cancelled)
4. (Cancelled)
5. (Original) The apparatus of claim 1, wherein the replication management module is further configured to invoke a file transfer service.
6. (Original) The apparatus of claim 5, wherein the file transfer service is selected from the group consisting of ftp, grid ftp, http, rft, and file.
7. (Cancelled)
8. (Original) The apparatus of claim 1, wherein the replication operations are conducted on search results.
9. (Original) The apparatus of claim 1, wherein the replication management module is further configured to change attributes associated with a file.
10. (Original) The apparatus of claim 1, wherein the replication management module is further configured to conduct publishing operations.
11. (Currently Amended) A method for managing data in a grid computing environment, the method comprising:

providing a dynamic web-based graphical user interface configured to facilitate invocation of data replication operations by a user including directory-based replication operations;

enabling a user to initiate modification or deletion of data on a selected node;

providing a search interface for discovering replicated data including directory based replicated data;

invoking a replica location service configured to:

- access at least one replica location index and at least one local replica catalog
- remote to the replica location service;
- aggregate information about local replica catalogs; and
- map logical file names to physical file names; and

conducting local or remote data replication and mapping operations in response to selections on the graphical user interface by the user.

12. (Cancelled)
13. (Cancelled)
14. (Original) The method of claim 11, further comprises invoking a file transfer service.
15. (Original) The method of claim 11, wherein the at least one graphical user interface comprises at least one web page.

16. (Currently Amended) A computer readable storage medium comprising computer readable program code for managing data in a grid computing environment, the program code configured to conduct a method comprising:
- providing a dynamic web-based graphical user interface configured to facilitate invocation of data replication operations by a user including directory-based replication operations;
 - enabling a user to initiate modification or deletion of data on a selected node;
 - providing a search interface for discovering replicated data including directory based replicated data;
 - invoking a replica location service configured to:
 - access at least one replica location index and at least one local replica catalog remote to the replica location service;
 - aggregate information about local replica catalogs; and
 - map logical file names to physical file names; and
 - conducting ~~the~~ local or remote data replication and mapping operations in response to selections on the graphical user interface by the user.
17. (Cancelled)
18. (Cancelled)

19. (Original) The computer readable storage medium of claim 16, wherein the method further comprises invoking a file transfer service.
20. (Cancelled)
21. (Original) The computer readable storage medium of claim 16, wherein the replication operations are conducted on catalog search results.
22. (Original) The computer readable storage medium of claim 16, wherein the method further comprises changing attributes associated with a file.
23. (Original) The computer readable storage medium of claim 16, wherein the method further comprises conducting publishing operations.
24. (Currently Amended) An apparatus for managing data in a grid computing environment, the apparatus comprising:
- means for providing a dynamic web-based graphical user interface configured to facilitate invocation of data replication operations by a user ~~enable a user to initiate modification or deletion of data on a selected node and facilitate invocation of data replication operations~~ including directory-based replication operations;

means for enabling a user to initiate modification or deletion of data on a selected node;

means for providing a search interface for discovering replicated data including directory based replicated data;

means for invoking a replica location service configured to;

access at least one replica location index and at least one local replica catalog

remote to the replica location service;

aggregate information about local replica catalogs; and

map logical file names to physical file names; and

means for conducting ~~the local or remote~~ data replication and mapping operations in response to selections on the graphical user interface by the user.

25. (Currently Amended) A system for managing data in a grid computing environment, the system comprising:

at least one computing node having a replica location index thereon, the replica location index configured to map logical names to a local replica catalog;

at least one computing node having a local replica catalog thereon, the local replica catalog configured to map logical file names to physical file names; and

a replication server remote to the at least one computing node having a replica location index thereon and the at least one computing node having a local replica catalog thereon configured to;

generate at least one graphical user interface; and
conduct data replication operations including directory-based replication
operations in response to user selections on the graphical user
interface; and
invoke a replica location service associated with the grid, the replica location
service configured to access at least one replica location index and at
least one local replica catalog remote to the replication management
module.

26. (Cancelled)

27. (Cancelled)

28. (Original) The system of claim 25, wherein the replication server is further configured to
conduct publishing operations, conduct replication operations on search results, and
change attributes associated with a file.

29. (Cancelled)

30. (Cancelled)